

IV. CLAIM AMENDMENTS

1. (Currently amended) A method for determining the performance of decoding in a telecommunication system comprising a decoder and a testing apparatus for supplying test data to the decoder, the method comprising:

generating the test data comprising channel coded parameters and inband data,

transmitting the test data from the testing apparatus to the decoder for decoding,

extracting at least a part of the inband data from the decoded test data,

bypassing a link adaptation process of the decoder, wherein the link adaptation process measures channel quality for selection of a channel codec in the telecommunication system,

transmitting at least the part of the inband data back to the testing apparatus, and

determining the performance of said decoding by comparing the transmitted inband data and the at least the part of the inband data received in the test apparatus.

2. (Canceled)

3. (Currently amended) A method according to claim 1, further comprising

activating a traffic channel of the telecommunication system before transmitting the test data, and

transmitting the test data from the testing apparatus to the decoder in ~~the~~a downlink traffic channel and from the decoder to the testing apparatus in ~~the~~an uplink traffic channel.

4. (Currently amended) A method according to claim 3, further comprising

transmitting the inband data back to the testing apparatus in ~~the~~a first available uplink traffic channel time frame.

5. (Currently amended) A method according to claim 3, further comprising

transmitting, prior to transmitting the test data, a message from the testing apparatus to activate a test loop in the decoder, ~~which~~wherein said test loop is implemented in functional connection with the decoder, and

acknowledging said message from the decoder to the testing apparatus, in response to the traffic channel being activated.

6. (Previously presented) A method according to claim 5, wherein the message is a bit combination of CLOSE_TCH_LOOP_CMD message defined in the document GSM 04.14 V8.1.0 of the GSM system.

7. (Original) A method according to claim 1, wherein the channel coded parameters are speech parameters.

8. (Currently amended) A method according to claim 1, further comprising

determining the performance of channel decoding of mode indication (MI) inband data field in AMR (Adaptive Multi-Rate) full-rate or half-rate speech channel.

9. (Currently amended) A testing apparatus for determining the performance of a decoder, which the testing apparatus is arranged to be functionally connected to the decoder, the testing apparatus comprising:

a composing means for composing test data comprising channel coded parameters and inband data,

a transmitter for transmitting the test data to the decoder for decoding,

controlling means for sending a command to the decoder to bypass its link adaptation process, wherein the link adaptation process measures channel quality of a telecommunication system for selection of a channel codec in the telecommunication system,

a receiver for receiving at least part of the inband data, and

a comparator for determining the performance of said decoding by comparing the transmitted inband data and the at least the part of the inband data received in the testing apparatus.

10. (Currently amended) A testing apparatus according to claim 9, wherein the testing apparatus is arranged to:

activate a traffic channel towards the decoder before transmitting the test data,

transmit the test data to the decoder in ~~the~~ a downlink traffic channel, and

receive the test data from the decoder in ~~the~~ an uplink traffic channel.

11. (Currently amended) A testing apparatus according to claim 10, wherein the testing apparatus is arranged to:

transmit, prior to transmitting the test data, a message to the decoder to activate a test loop in the decoder, ~~which~~ wherein the test loop is implemented in functional connection with the decoder, and

receive an acknowledgement of said message from the decoder, in response to the traffic channel being activated.

12. (Currently amended) A mobile station, comprising:

a receiver for receiving test data comprising channel coded parameters and inband data from a testing apparatus,

a decoder for decoding the test data,

extracting means for extracting at least part of the inband data from the decoded test data,

controlling means for controlling a link adaptation process of the decoder to be bypassed, wherein the link adaptation process measures channel quality of a telecommunication system for selection of a channel codec in the telecommunication system, and

a transmitter for transmitting the at least a—part of the
inband data back to the testing apparatus.

13. (Previously presented) A mobile station according to claim
12,

wherein the inband data is arranged to be transmitted back to
the testing apparatus in a first available uplink traffic
channel time frame.